



THE KING CRAB (Paralithodes camtschatica) FISHERIES OF THE
ALASKA PENINSULA-ALEUTIAN ISLANDS MANAGEMENT AREA,
1971-72

By:
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James W. Brooks
Commissioner

ADF&G TECHNICAL DATA REPORTS

This series of reports is designed to facilitate prompt reporting of data from studies conducted by the Alaska Department of Fish and Game, especially studies which may be of direct and immediate interest to scientists of other agencies.

The primary purpose of these reports is presentation of data. Description of programs and data collection methods is included only to the extent required for interpretation of the data. Analysis is generally limited to that necessary for clarification of data collection methods and interpretation of the basic data. No attempt is made in these reports to present analysis of the data relative to its ultimate or intended use.

Data presented in these reports is intended to be final, however, some revisions may occasionally be necessary. Minor revision will be made via errata sheets. Major revisions will be made in the form of revised reports.

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INTRODUCTION

An active king crab fishery has existed in the vicinity of the Alaska Peninsula and Aleutian Islands since 1960. Alaska Department of Fish and Game management reports have documented past years' king crab fisheries of the Alaska Peninsula-Aleutian Islands area which reached a maximum of 63.7 million pounds in 1966 (Davenport, 1970).

King crab research by the Alaska Department of Fish and Game in the Alaska Peninsula-Aleutian Islands area prior to July 1969 was conducted on a time available basis by fisheries management personnel. A specific crab research project was initiated in July 1969. This report is the third in a continuing series designed to annually document catch statistics and update analyses of stock condition^{1/}. Each report emphasizes data obtained from the most recent seasons' fishery and compares these data with those from preceding seasons in order to establish trends of stock condition. The first report was authored by McMullen and Yoshihara (1970) and the second by McMullen, Yoshihara and Geiger (1972).

The primary objective of the king crab research project in the Alaska Peninsula and Aleutian Island area's is to provide biological information on the king crab populations which will enable the Department to better manage the stocks involved. When this project was initiated in 1969, we had very

^{1/} The first two reports were issued in the Alaska Department of Fish and Game's "Informational Leaflet" series, No's. 148 and 157. The present report is being issued under a new series "ADF&G Technical Data Report".

little information on stock condition in these areas. Our continuing goals, therefore, are to establish and monitor biological parameters which will yield the desired information on stock abundance, condition, and distribution necessary to manage the fishery.

DESCRIPTION OF REGISTRATION AREAS

King crab fisheries discussed are located within King Crab Registration Areas LM, O and R (refer to Figure 1). Each registration area has been further divided into fishing sub-areas, boundaries of which were chosen through knowledge of fleet distribution, presence of natural barriers to crab migration, and apparent geographical separation of major groups of crabs (Table 1). Data obtained on the various parameters of stock condition in each registration area are tabulated and analyzed with respect to these fishing sub-areas as well as to the entire registration area.

The Alaska Peninsula Area (LM) fishery operates in the Pacific Ocean between the longitudes of Cape Kumlik and Scotch Cap (sub-areas I-V). The portion of this area between Cape Pankof and Scotch Cap, known as the "Overlap Area" (sub-area V), is open to vessels registered in either Area LM or O. The overlap area has no biological significance, but only delineates the overlapping boundaries of Areas LM and O. For purposes of this report sub-area V is considered as part of Area LM.

The Eastern Aleutians Area (O) fishery operates in the Pacific Ocean and eastern Bering Sea (south of $54^{\circ} 36'$ N. latitude) between 172° W. longitude and the longitude of Scotch Cap (sub-areas VI and VII).

The Mid-Aleutian Area (R) fishery operates in the Pacific Ocean and Bering Sea waters of the Aleutian Islands west of 172° W. longitude (sub-areas VIII-XI).

METHODS OF STUDY

Data are presented on a seasonal rather than calendar year basis. This allows comparison of total catch, catch per unit effort (CPUE), and catch composition information obtained between the termination of one molting period and the onset of the next. Only in this way can the relative impact of a given size or age class on the overall stock status be accurately delineated.

Data presented here are derived from several sources. Data concerning catch and effort in relation to time and area fished are obtained primarily from individual landing records referred to as "fish tickets". Each processing facility is responsible for obtaining information required on each landing. This information includes species of crab landed, area fished, number and pounds

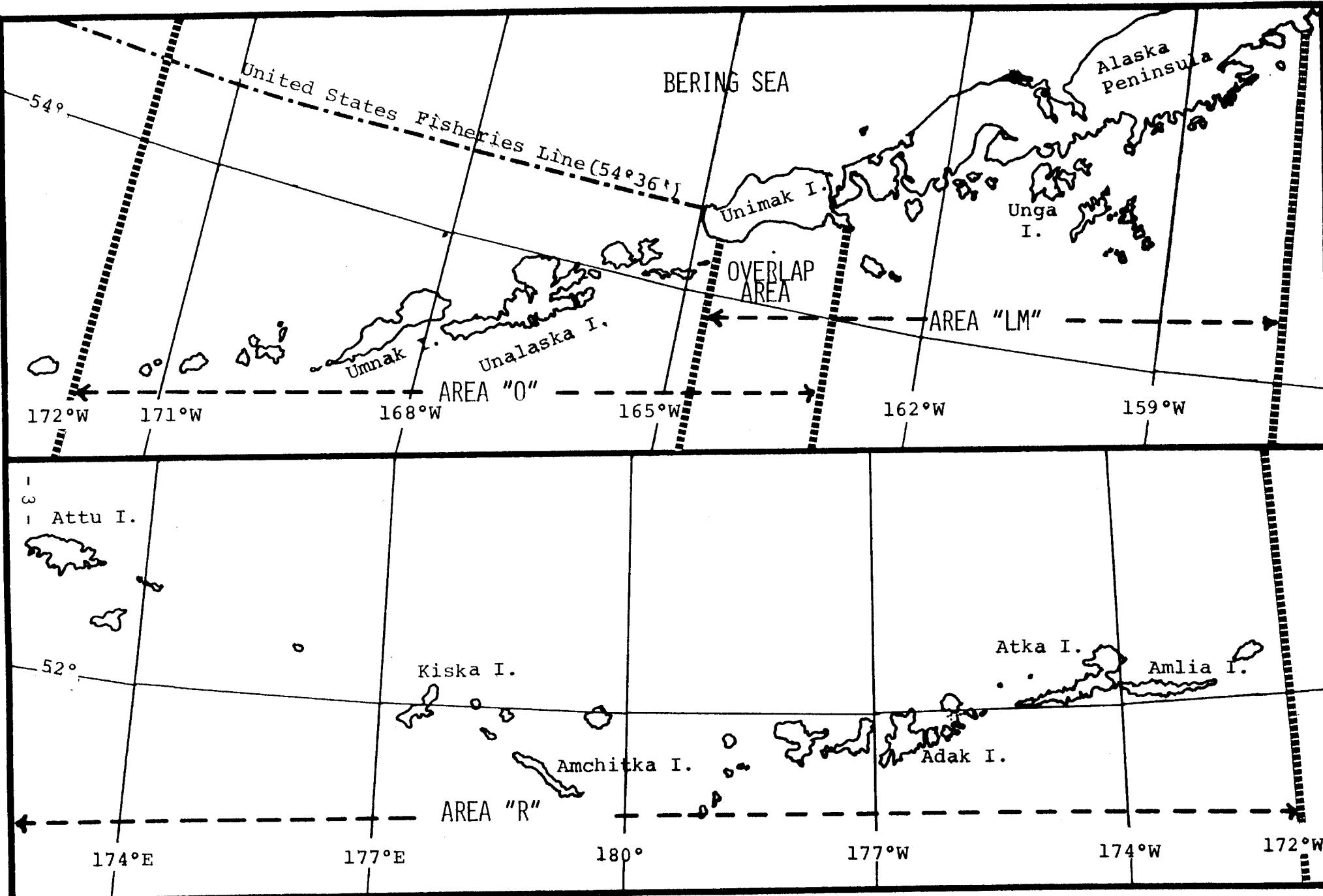


Figure 1. King crab registration areas in Alaska Peninsula and Aleutian Islands, 1971-1972 season.

Table 1. Designation of fishing sub-areas of Alaska Peninsula and Aleutian Islands.

<u>Registration Area</u>		<u>Sub-area</u>	<u>Statistical Areas</u>
<u>ALASKA PENINSULA (LM)</u>			
Shumagin Island Mainland	I		<u>281</u> -34, 35, 36; <u>283</u> -61, 62, 63, 64, 70, 80, 90
East Shumagin Island	II		<u>282</u> -10, 11, 12, 13, 21, 22, 23, 24, 25, 26 <u>286</u> -21, 22
West Shumagin Island	III		<u>283</u> -11, 12, 20, 31, 32, 33, 34, 41, 42, 51, 52 <u>286</u> -32, 33, 34, 35, 36; <u>311</u> -60; <u>284</u> -60
Sanak Island	IV		<u>283</u> -10, 30; <u>286</u> -30, 31, 37
Davidson Bank-Unimak Is.	V		<u>284</u> -10, 20, 30, 40, 50, 71, 72; <u>286</u> -41, 42, 43, 44, 45, 46
<u>EASTERN ALEUTIANS (O)</u>			
Pacific Ocean waters	VI		<u>302</u> -18, 19, 50, 51, 60, 70, 80, 90; <u>303</u> -21, 22, 23, 35; <u>362</u> -11, 12, 16, 52, 61, 71, 76, 81, 86, 91, 96
Bering Sea waters	VII		<u>302</u> -16, 17, 21, 22, 23, 24, 25, 30, 31 <u>303</u> -10, 31, 32; <u>353</u> -30; <u>304</u> -12
<u>MID-ALEUTIANS (R)</u>			
Atka-Amlia Island Pacific Ocean	VIII		<u>305</u> -15, 21, 22, 31, 32; <u>306</u> -16, 20, 30 <u>365</u> -33, 34; <u>366</u> -10, 20, 30
Atka Island, Bering Sea	IX		<u>305</u> -41, 42, 51; <u>306</u> -11; <u>307</u> -12
Amlia Island, Bering Sea	X		<u>305</u> -11, 52, 53
Petrel Bank	XI		<u>308</u> -41, 42, 43, 45, 46; <u>358</u> -41, 46, 47, 48, 71

of crabs, number of pots lifted, and date of delivery. The data listed on fish tickets are compared to those obtained through fisherman interviews, after which apparent reporting errors can be reviewed.

The fisherman interview program is conducted by Alaska Department of Fish and Game biologists stationed at the various landing sites. The biologist interviews the vessel master when delivery is being made. This interview provides more detailed information on catch and effort in relation to time and area fished. The interview also provides information on depth of fishing, abundance of female and sublegal male crabs, and length of fishing trips. At the time of the interview the biologist also measures and examines a given number of crabs from each landing. This yields information on size composition of the harvested crabs, average size, abundance of recruit crabs (i.e., crabs entering the fishery for the first time), and shell age and condition. Biologists at processing locations can thus observe changes in catch trends, incidence of disease, and determine areas where specific research is needed.

Additional information is obtained from sampling total catches aboard fishing vessels. Under this program biologists go to the fishing grounds aboard fishing vessels where they measure and examine female and sublegal male crabs from pot catches. Information gained from this procedure includes size frequency of all female and sublegal male crabs caught, their abundance by size classes, as well as presence and condition of eggs. These data are used in conjunction with dockside information to evaluate stock condition and provide estimates of pre-recruit abundance. A special note of appreciation is due to crews of those vessels which allowed us to accompany them on the fishing grounds.

RESULTS AND DISCUSSION

The following considerations must be pointed out before discussing the abundance of king crab in any registration area.

Comparison of total harvest only in each registration area has little meaning as the harvest in each is regulated by quotas. This is especially true when comparing catches between the last two seasons as the minimum size limit was lowered from a 7-inch to a 6-1/2-inch shell width prior to the 1971-72 season. Abundance of harvestable crab must be analyzed on a catch per unit effort (CPUE) basis. These CPUE indices tend to be more independent of fluctuating quotas or total effort and more directly comparable over any period of time than total harvest only. Catch per unit effort indices are used in conjunction with size composition data from dockside sampling to provide

an index of actual abundance of recruit and post-recruit size classes.

Presently a unit of effort represents a pot lift with no regard to soak time. However, in given fisheries soak time tends to remain constant, so CPUE is a usable relative value. The comparison of CPUE between fisheries may not be valid.

Four major factors must be considered in analyzing relative abundance of crab: 1) relative abundances (percentage) of recruit and post-recruit size classes, and 2) relative abundances of pre-recruit size classes. These indices are major parameters used to determine proper harvest levels. Proper management of king crab requires that target harvest levels be redetermined annually as the abundance of pre-recruit, recruit, and post-recruit size classes fluctuates annually. These fluctuations are due to brood stock abundance, larval survival, natural and fishing mortality, and possibly mating success.

Catch and effort data summarized for each king crab registration area may not afford comparisons of fisheries between years. Each area may contain several crab stocks, and effort may shift between stocks in different years. Therefore, catch and effort data for fishing sub-areas, which are probably more representative of stock boundaries, are presented for detailed review.

Alaska Peninsula (Area LM)

The area LM king crab fishery consists primarily of resident fishermen with smaller vessels than are utilized in Registration Area O and R. The annual catch quota in this areas has been 4,000,000 pounds during each of the past two seasons. The 1971-72 king crab season in Area LM with the exception of sub-area V (overlap) extended from August 15, 1971 through January 15, 1972. The season in sub-area V extended from September 15, 1971 through January 24, 1972 at which time the quota was attained and the area closed.

Total king crab catch in Area LM during the 1971-72 season was 4,123,130 pounds or 597,394 crabs (Table 2). The fleet attained this catch with 41,759 pot lifts and 363.5 landings. The partial landing represents a combined catch from the Overlap Area and Area O. The average catch per pot was 14.3 crabs or 98.7 pounds. Sub-area V contributed 32 percent of the Area LM harvest in pounds of crab (Table 3). The Mainland (sub-area I) was the next major contributor. Catch and effort statistics by month and sub-area are included in Appendix A.

Table 2. Alaska Peninsula (Area "LM") king crab fishery.

Comparative statistics	Fishing Year	
	1970-71	1971-72
<u>CATCH AND EFFORT</u>		
No. vessels	25	26
No. landings	339	363.5
Pot lifts	38,995	41,759
Crab caught	446,042	597,394
Pounds caught	3,425,760	4,123,130
Crabs per pot	11.4	14.3
Pounds per pot	87.9	98.7
<u>SIZE AND WEIGHT COMPOSITION</u>		
No. crabs sampled	10,166	6,201
Avg. carapace width (in.)	7.59	7.42
Avg. weight (lbs.)	7.7	6.9
Crabs less than 7-in. width		
Percent	1/	20.36
Crabs per pot	1/	2.91
Recruit crabs (based on 1970-71 regulations which excludes those less than 7-in. width)		
Percent	49.40	58.84
Crabs per pot	5.63	6.71
Post-recruit crabs		
Percent	50.60	41.16
Crabs per pot	5.77	4.69

1/ Legal minimum size limit was 7-inches in 1970-71 and 6-1/2-inches in 1971-72.

Table 3. King crab harvest statistics of Alaska Peninsula-Aleutian Islands by sub-area, 1971-72.

Registration area	Sub-area	Pounds	Crabs	Pots	Landings	Pound/pot	Crab/pot	Size range (mm length)	Percent new-shell
<u>LM</u>	I	1,295,006	202,222	17,135	148.0	75.6	11.8	132-197	86.7
	II	180,967	25,800	2,966	25.3	61.0	8.7	135-196	86.0
	III	1,241,239	180,356	11,260	130.3	110.2	16.0	132-204	76.5
	IV	95,032	13,862	1,172	6.5	81.1	11.8	-	74.5
	V	1,310,886	175,154	9,226	53.3	142.1	19.0	134-204	74.3
Sub-totals		4,123,130	597,394	41,759	363.5	98.7 ^{1/}	14.3 ^{1/}	132-204	79.5 ^{1/}
<u>O</u>	VI	5,277,726	804,738	17,300	93.2	305.1	46.5	134-191	86.8
	VII	4,113,889	642,954	14,291	115.3	287.9	45.0	132-193	75.9
	Sub-totals	9,391,615	1,447,692	31,531	208.5	297.8 ^{1/}	45.9 ^{1/}	132-193	81.4 ^{1/}
<u>R</u>	VIII	42,525	7,856	472	3.0	90.1	16.6	-	-
	IX	251,118	45,662	1,997	7.5	125.7	22.9	136-173	82.4
	X	15,164,606	2,779,447	43,542	155.0	348.3	63.8	132-183	92.0
	XI	17,675	3,237	350	0.5	50.5	9.2	-	-
Sub-totals		15,475,924	2,836,202	46,361	166.0	333.8 ^{1/}	61.2 ^{1/}	132-183	91.9 ^{1/}

^{1/} Weighted average

Analyses of total catch, effort, and size composition data from the 1971-72 commercial harvest indicate that the abundance of crabs 7-inches or greater in width of shell has changed little if any from that during the 1970-71 season. The slight increase in CPUE over the 1970-71 season was due primarily to lowering the size limit from 7-inch to 6-1/2-inch shell width. The CPUE of 7-inch or larger crabs was 11.4 crab per pot during both seasons. CPUE of 6-1/2 to 7-inch crabs in the 1971-72 season was 2.9 crabs per pot.

As the abundance of crabs 7 inches or greater in width has apparently remained constant during the last two seasons, the increased catch in the 1971-72 season over that in the 1970-71 season is apparently attributable solely to the fleet being permitted to retain 6-1/2 to 7-inch crabs during the latter season. Continued harvest of this smaller size class will reduce the abundance of crabs attaining 7 inches and result in the unnecessary decline in general stock condition. The lower size limit resulted in decreases in mean carapace width (0.17 inch) and mean body weight (0.8 pound) from the 1970-71 season. Size and shell age between the last two seasons are compared in Figure 2.

Eastern Aleutians (Area O)

During the 1971-72 king crab fishery in Area O the fleet, composed of the same number of vessels as in 1970-71, harvested 9,391,615 pounds in 39 days. The 1971-72 king crab catch in this area, although nearly identical with that in the 1970-71 season, was made with 44 percent less effort (pot lifts). The season opened September 15 and was closed October 23 by field closure. Although the Area O quota has been 8,000,000 pounds for each of the past two seasons, more than 9,000,000 pounds have been taken each year (Table 4). The 1,391,615 pounds taken in excess of the quota in the 1971-72 season was due to the fleet having large numbers of crabs aboard when the field closure was effected. The 1971-72 harvest was fairly evenly divided between sub-areas VI and VII (Table 3).

Analysis of catch statistics indicates that CPUE in 1971-72, 45.9 crabs/pot, doubled over the 22.5 crabs per pot average in the 1970-71 season. Data obtained on catch and size composition of commercial harvest indicate that this increased catch rate was due to a combination of lowered size limit (11.8 crabs/pot), and the recruitment of an abundant size class into the 7-inch fishery. Abundance estimates of recruit and post-recruit crabs were based on a 7-inch limit to allow comparison between the two seasons. These data indicate that the abundance of recruit crabs increased by 10.2 crabs per pot, while that of post-recruits remained nearly constant (11.1 in 1970-71 and 12.5 in 1971-72).

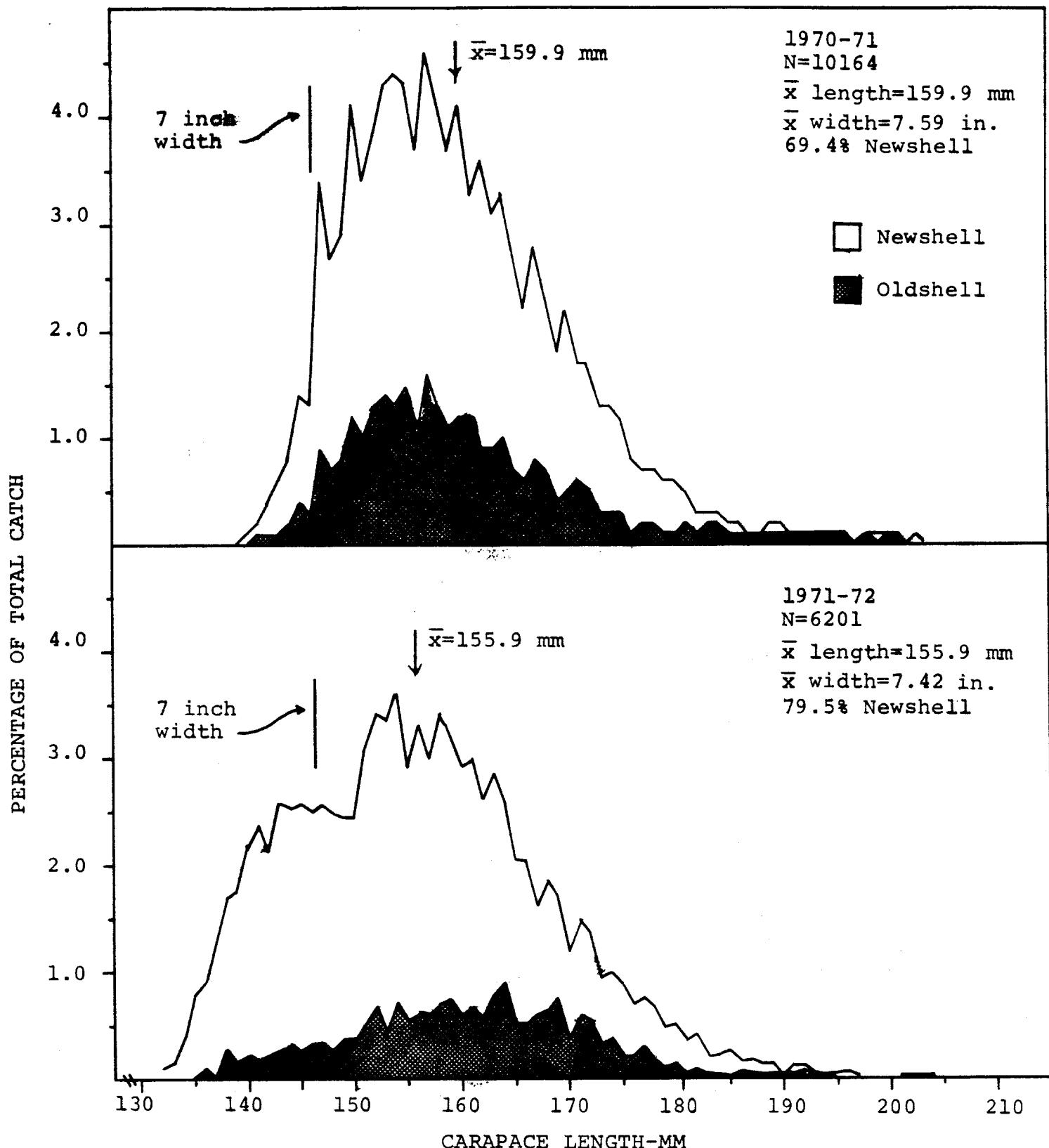


Figure 2. Comparison of size and shell age composition of commercial king crab catches from Registration Area "LM" between the 1970-71 and 1971-72 fishing seasons.

Table 4. East Aleutians (Area "O") king crab fishery.

Comparative statistics	Fishing Year	
	1970-71	1971-72
<u>CATCH AND EFFORT</u>		
No. vessels	32	32
No. landings	268	208.5
Pot lifts	56,198	31,531
Crab caught	1,265,579	1,447,692
Pounds caught	9,651,503	9,391,615
Crabs per pot	22.5	45.9
Pounds per pot	171.7	297.8
<u>SIZE AND WEIGHT COMPOSITION</u>		
No. crabs sampled	9,165	4,644
Ave. carapace width (in.)	7.8	7.4
Ave. weight (lbs.)	7.6	6.5
Crabs less than 7 in. width		
Percent	-	25.6
Crabs per pot	-	11.8
Recruit crabs (based on 1970-71 size limit which excludes those less than 7-in. carapace width)		
Percent	48.7	63.4
Crabs per pot	11.4	21.6
Post-recruit crabs		
Percent	51.3	36.6
Crabs per pot	11.1	12.5

~~Data obtained~~ on size and shell age of crabs show that average width decreased from 7.77 inches in 1970-71 to 7.44 inches in 1971-72 (Figure 3). There were relatively fewer new-shell crabs this year (81.4%) than last year (85.0%).

Mid-Aleutians (Area R)

The 1971-72 king crab fishery in Area R opened November 1 and was closed by field announcement on December 15. The seasonal quota of 15,000,000 pounds in this area has been attained during each of the past two seasons.

Prior to discussing trends in stock condition of Area R, it must be pointed out that the majority of the catch during each of the past three fishing seasons has come from a different area. Therefore, the indicated changes in stock condition and abundance between seasons may represent conditions and densities of different stocks. Results of tagging studies presently in progress and other studies on migration patterns to be conducted in 1973 will more clearly delineate existing stocks.

Catch statistics (Table 5) show that 40 vessels landed 15,475,924 pounds with an effort of 46,361 pot lifts. The majority of these crab were caught in sub-area X, the Bering Sea side of Amlia Island.

Data indicates that the catch per pot in the 1971-72 seasons was substantially increased over that in the 1970-71 fishery. It must be kept in mind that much of this increase (35.0 crabs/pot) resulted from lowering the size limit to 6-1/2-inches during the 1971-72 season. An abundant recruit size class (based on a 7-inch size limit) contributed an increase of 12.1 crabs per pot over the recruit abundance in the 1970-71 season. Abundance of post-recruit crabs decreased by 5.8 crabs per pot. Dependence of the fishery upon 6-1/2 to 7-inch crabs and 7-inch recruit crab is graphically shown in Figure 4. This clearly demonstrates that the 1971-72 fishery in Area R was heavily dependent upon smaller crabs.

PERCENTAGE OF TOTAL CATCH

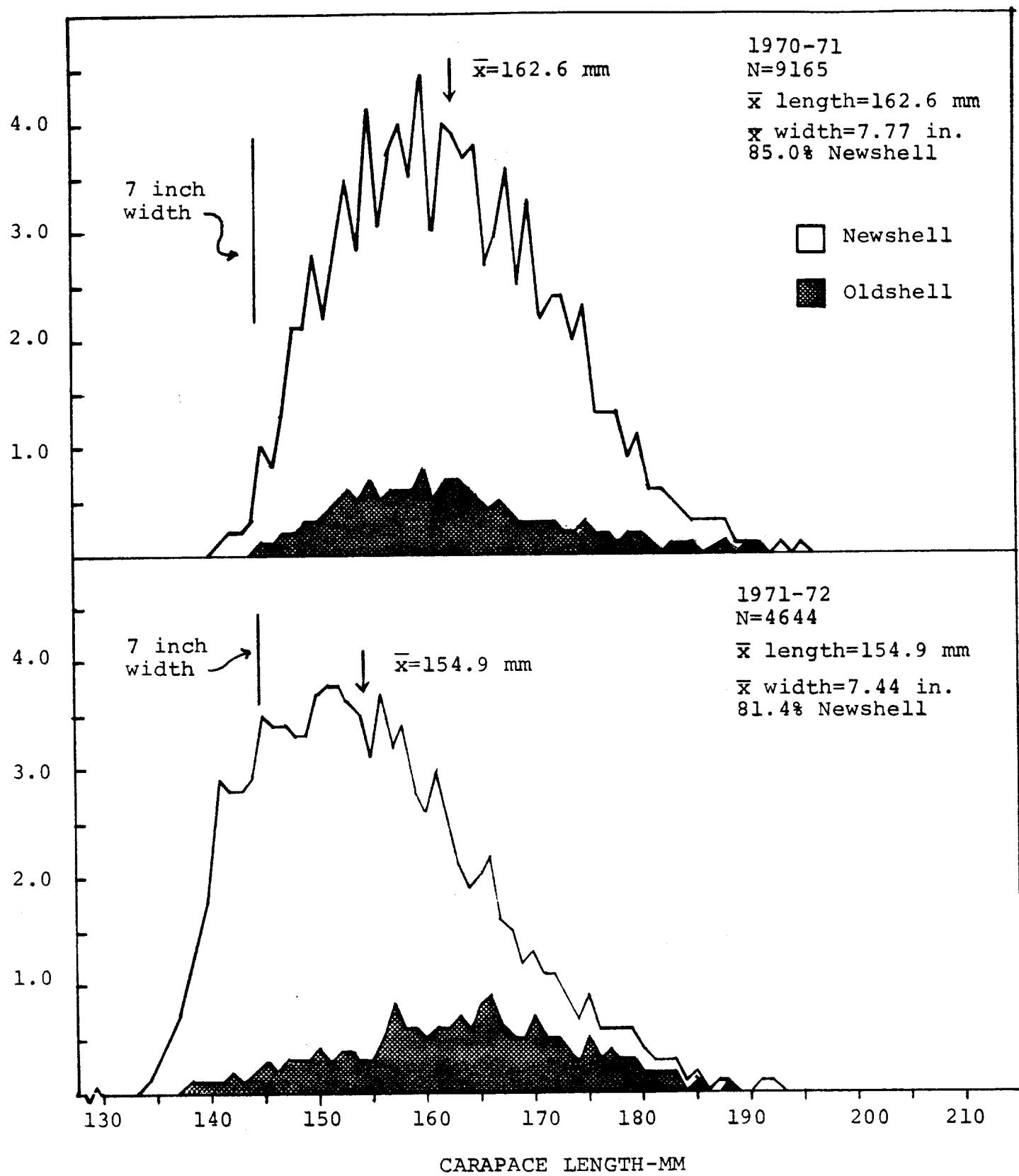


Figure 3. Comparison of size and shell age composition of commercial king crab catches from Registration Area "O" between the 1970-71 and 1971-72 fishing seasons.

Table 5. Mid-Aleutians (Area "R") king crab fishery.

<u>Comparative statistics</u>	<u>Fishing Year</u>	
	1970-71	1971-72
<u>CATCH AND EFFORT</u>		
No. vessels	35	40
No. landings	378	166
Pot lifts	124,235	46,361
Crab caught	2,467,737	2,836,202
Pounds caught	16,057,021	15,475,924
Crabs per pot	19.9	61.2
Pounds per pot	129.2	333.8
<u>SIZE AND WEIGHT COMPOSITION</u>		
No. crabs sampled	14,565	5,442
Ave. carapace width (in.)	7.5	7.1
Ave. weight (lbs.)	6.5	5.5
Crabs less than 7-in. width		
Percent	-	57.2
Crabs per pot	-	35.0
Recruit crabs (based on 1970-71 regulations which exclude those less than 7-in. width)		
Percent	43.8	79.4
Crabs per pot	8.7	20.8
Post-recruit crabs		
Percent	56.2	20.6
Crabs per pot	11.2	5.4

PERCENTAGE OF TOTAL CATCH

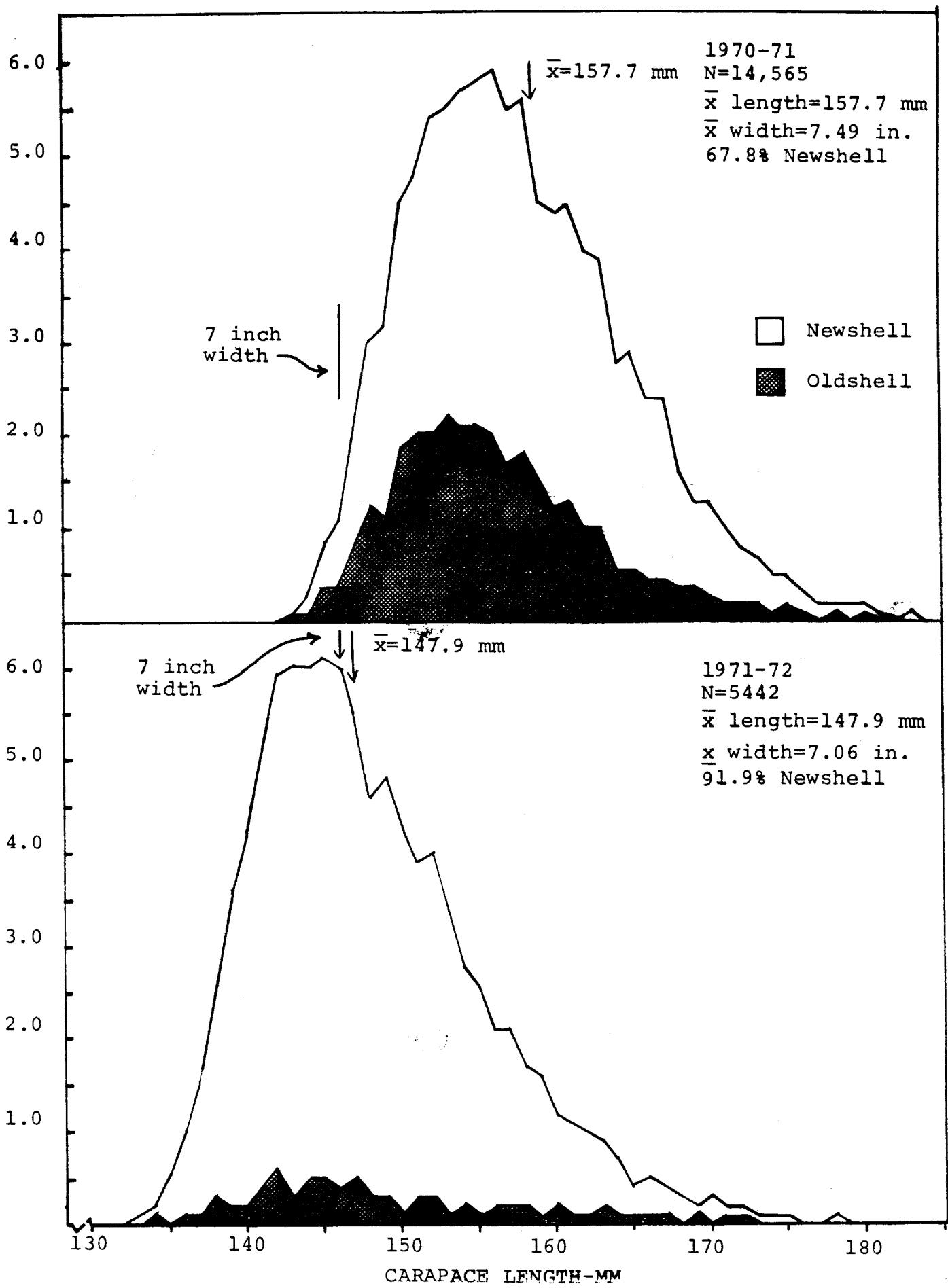


Figure 4. Comparison of size and shell age composition of commercial king crab catches from Registration Area "R" between the 1970-71 and 1971-72 fishing seasons.

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Appendix Table A-1. Comparison of king crab catch and effort statistics from Registration Area "LM", 1970-71 and 1971-72 fishing seasons.

	Sub-area I - Mainland												
	August		September		October		November		December		January		
	70-71	71-72	70-71	71-72	70-71	71-72	70-71	71-72	70-71	71-72	70-71	71-72	
Total catch (pounds)	304,698	0	537,140	689,691	174,762	359,088	50,043	89,641	36,356	110,439	6,693	46,147	Total 1,109,692 1,295,006
Total catch (number)	41,293	0	74,549	109,969	23,652	56,221	6,824	14,222	4,722	15,802	848	6,008	Total 151,888 202,222
Total pot lifts	1,980	0	5,514	8,314	3,754	4,590	1,711	2,182	1,165	1,635	603	414	Total 14,727 17,135
Total landings	23	0	44.5	57.7	37.5	50	15.5	21	10	14.3	7	5	Total 137.5 148.0
Crabs per pot	20.9	-	13.5	13.2	6.3	12.2	4.0	6.5	4.1	9.7	1.4	14.5	Average 10.3 11.8
Pounds per pot	153.9	-	97.4	83.0	46.6	78.2	29.2	41.1	31.2	67.5	11.1	111.5	Average 75.4 75.6
Number measured	0	-	1,009	1,202	1,857	0	476	491	128	50	57	0	Total 3,527 1,743
Percent exuviant	-	-	83.2	86.8	77.0	-	80.9	86.6	85.2	86.0	80.7	-	Average 79.6 86.7
Percent anexuviant	-	-	16.8	13.2	23.0	-	19.1	13.4	14.8	14.0	19.3	-	Average 20.4 13.3
Percent recruits*	-	-	71.4	75.2	62.7	-	63.7	49.2	63.3	63.8	75.4	-	Average 65.5 72.8
Recruits per pot*	-	-	9.6	6.2	4.0	-	2.5	1.8	2.6	5.8	1.1	-	Average 6.7 5.4
% of catch $\leq 7"$ width	0	-	0	38.2	0	-	0	42.7	0	6.0	0	-	Average 0 37.3
Crabs per pot $> 7"$ width	20.9	-	13.5	8.2	6.3	-	4.0	3.7	4.1	9.1	1.4	-	Average 10.3 7.4

* Recruitment based on 7" size limit and 18 mm length increase per molt.

Appendix Table A-II. Comparison of king crab catch and effort statistics from Registration Area "LM", 1970-71 and 1971-72 fishing seasons.

	Sub-area II - East Shumagin Islands												70-71	71-72		
	August		September		October		November		December		January					
	70-71	71-72	70-71	71-72	70-71	71-72	70-71	71-72	70-71	71-72	70-71	71-72				
Total catch (pounds)	0	0	11,196	53,843	17,503	42,084	32,991	40,250	94,953	37,066	17,378	7,724	174,021	180,967		
Total catch (number)	0	0	1,439	8,533	2,314	6,060	4,299	5,134	12,017	5,000	2,153	1,073	22,222	25,800		
Total pot lifts	0	0	153	599	318	463	1,139	795	2,610	919	1,306	190	5,526	2,966		
Total landings	0	0	1.5	3.8	4	3.5	13	5	29.5	10	17	3	65	25.3		
Crabs per pot	-	-	9.4	14.2	7.3	13.1	3.8	6.5	4.6	5.4	1.6	5.6	4.0	8.7		
Pounds per pot	-	-	73.2	89.9	55.0	90.9	29.0	50.6	36.4	40.3	13.3	40.7	31.5	61.0		
Number measured	-	-	101	100	102	0	0	157	304	100	215	50	721	407		
Percent exuviant	-	-	90.1	81.0	843	-	-	91.7	80.9	83.0	82.3	84.0	83.2	86.0		
Percent anexuviant	-	-	9.9	19.0	15.7	-	-	8.3	19.1	17.0	17.7	16.0	16.8	14.0		
Percent recruits*	-	-	55.4	54.0	66.7	-	-	58.9	45.7	62.9	45.1	64.0	49.9	59.7		
Recruits per pot*	-	-	5.2	5.7	4.9	-	-	3.0	2.1	3.3	0.7	3.6	2.0	4.4		
% of catch < 7" width	0	-	0	26.0	0	-	0	21.0	0	3.0	0	0	0	15.2		
Crabs per pot > 7" width	-	-	9.4	10.5	7.3	-	3.8	5.1	4.6	5.2	1.6	5.6	4.0	7.4		

* Recruitment based on 7" size limit and 18 mm length increase per molt.

Appendix Table A-III. Comparison of king crab catch and effort statistics from Registration Area "LM", 1970-71 and 1971-72 fishing seasons.

	Sub-area III - West Shumagin Islands												
	August		September		October		November		December		January		
	70-71	71-72	70-71	71-72	70-71	71-72	70-71	71-72	70-71	71-72	70-71	71-72	
Total catch (pounds)	35,572	0	192,187	437,305	100,888	406,321	121,863	228,242	56,647	119,992	18,812	49,379	Total 525,969 1,241,239
Total catch (number)	4,944	0	26,384	64,718	14,276	59,314	15,922	33,046	7,500	16,660	2,238	6,618	Total 71,264 180,356
Total pot lifts	220	0	1,531	4,030	1,516	3,201	1,667	2,307	690	1,122	209	600	Total 5,833 11,260
Total landings	3	0	24	38	14.5	40	18.5	25	9.5	19.3	4	8	Total 73.5 130.3
Crabs per pot	22.5	-	17.2	16.1	9.4	18.5	9.6	14.3	10.9	14.8	10.7	11.0	Average 12.2 16.0
Pounds per pot	161.7	-	125.5	108.5	66.5	126.9	73.1	98.9	82.1	106.9	90.0	82.3	Average 90.2 110.2
Number measured	0	-	1,003	850	565	997	753	455	400	203	0	100	Total 2,721 2,605
Percent exuviant	-	-	55.0	80.8	64.2	72.5	51.8	73.0	44.2	81.8	-	85.0	Average 54.5 76.5
Percent anexuviant	-	-	45.0	19.2	35.8	27.5	48.2	27.0	55.8	18.2	-	15.0	Average 45.5 23.5
Percent < recruits*	-	-	49.8	64.3	56.8	60.2	42.8	63.9	38.0	51.3	-	62.0	Average 47.6 61.7
Recruits per pot*	-	-	8.6	8.8	5.4	9.6	4.1	7.3	4.1	7.4	-	6.8	Average 5.8 8.2
% of catch > 7" width	0	-	0	23.6	0	13.9	0	19.6	0	3.0	0	0	Average 0 16.7
Crabs per pot 7" width	22.5	-	17.2	13.4	9.4	15.9	9.6	11.5	10.9	14.4	10.7	11.0	Average 12.2 13.3

* Recruitment based on 7" size limit and 18 mm length increase per molt.

Appendix Table A-IV. Comparison of king crab catch and effort statistics from Registration Area "LM", 1970-71 and 1971-72 fishing seasons.

	Sub-area IV - Sanak Islands													
	August		September		October		November		December		January		70-71	71-72
	70-71	71-72	70-71	71-72	70-71	71-72	70-71	71-72	70-71	71-72	70-71	71-72	70-71	71-72
Total catch (pounds)	0	0	22,600	21,157	20,827	58,236	0	1,026	29,812	14,613	0	0	73,239	95,032
Total catch (number)	0	0	3,100	3,067	2,891	8,635	0	143	3,800	2,017	0	0	9,791	13,862
Total pot lifts	0	0	200	233	234	732	0	140	365	67	0	0	799	1,172
Total landings	0	0	1	0.7	2	4.5	0	1	2	.3	0	0	5	6.5
Crabs per pot	-	-	15.5	13.2	12.4	11.8	-	1.0	10.4	30.1	-	-	Average 12.2	11.8
Pounds per pot	-	-	113.0	90.8	89.0	79.6	-	7.3	81.7	218.1	-	-	Average 91.7	81.1
Number measured	-	-	0	0	0	102	-	0	0	0	-	-	Total 0	102
Percent exuviant	-	-	-	-	-	74.5	-	-	-	-	-	-	-	74.5
Percent anexuviant	-	-	-	-	-	25.5	-	-	-	-	-	-	-	25.5
Percent recruits*	-	-	-	-	-	57.6	-	-	-	-	-	-	-	57.6
Recruits per pot*	-	-	-	-	-	5.6	-	-	-	-	-	-	-	5.6
% of catch < 7" width	0	-	0	-	0	16.7	0	-	0	-	0	-	0	16.7
Crabs per pot > 7" width	-	-	15.5	-	12.4	9.8	-	-	10.4	-	-	-	12.2	9.85

* Recruitment based on 7" size limit and 18 mm length increase per molt.

Appendix Table A-V. Comparison of king crab catch and effort statistics from Registration Area "LM", 1970-71 and 1971-72 fishing seasons.

	Sub-area V - Overlap													
	September		October		November		December		January		February		70-71	71-72
	70-71	71-72	70-71	71-72	70-71	71-72	70-71	71-72	70-71	71-72	70-71	71-72	Total	Total
Total catch (pounds)	104,502	188,735	589,878	345,634	329,516	342,734	203,960	268,272	190,862	165,511	124,121		1,542,839	1,310,886
Total catch (number)	13,339	26,214	75,180	47,294	40,308	45,603	24,459	34,939	22,836	21,104	14,755		190,877	175,154
Total pot lifts	661	1,549	3,628	2,425	3,780	2,544	2,018	1,844	1,129	864	894		12,110	9,226
Total landings	3	4.3	15.5	12	15.5	14	10	13	7	10	7		58	53.3
Crabs per pot	20.2	16.9	20.7	19.5	10.7	17.9	12.1	18.9	20.2	24.4	16.5		15.8	19.0
Pounds per pot	158.1	121.8	162.6	142.5	87.2	134.7	101.1	145.5	169.0	191.5	138.8		127.4	142.1
Number measured	124	201	1,273	150	756	792	453	151	439	50	151		3,196	1,344
Percent exuviant	63.7	67.7	66.9	81.3	61.4	73.4	64.2	76.2	78.8	88.0	87.4		67.7	74.3
Percent anexuviant	36.3	32.3	33.1	18.7	38.6	26.6	35.8	23.8	21.2	12.2	12.6		32.3	25.7
Percent recruits*	33.9	33.9	34.2	31.7	32.8	32.6	35.8	45.5	36.4	66.7	41.1		35.0	36.9
Recruits per pot	6.8	5.2	7.1	5.9	3.5	5.2	4.3	8.1	7.0	15.6	6.8		5.5	6.4
% of catch < 7" width	0	9.0	0	5.3	0	10.8	0	5.3	0	4.0	0		0	8.2
Crabs per pot > 7" width	20.2	15.4	20.7	18.5	10.7	16.0	12.1	17.9	20.2	23.4	16.5		15.8	17.4

* Recruitment based on 7" size limit and 18 mm length increase per molt.

Appendix Table A-VI. Comparison of king crab catch and effort statistics from Registration Area "O", 1970-71 and 1971-72 fishing seasons.

	Sub-area VI - Pacific Ocean Waters											
	September		October 2/		November 2/		December 2/		January 2/		70-71	71-72
	70-71	71-72	70-71	71-72	70-71	71-72	70-71	71-72	70-71	71-72		
Total catch (pounds)	242,898	1,242,101	1,267,985	4,035,625	1,016,729		579,645		401,245		Total 3,508,502	5,277,726
Total catch (number)	35,002	190,256	173,095	614,482	140,734		81,840		54,072		Total 484,743	804,738
Total pot lifts	1,252	3,911	6,114	13,329	6,377		3,963		1,860		Total 19,566	17,300
Total landings	4.5	20	29.5	73.16	29		20		12		Total 95	93.2
Crabs per pot	28.0	48.6	28.3	46.1	22.1		20.6		29.1		Average 24.8	46.5
Pounds per pot	194.0	317.6	207.4	302.8	159.4		146.3		215.7		Average 179.3	305.1
Number measured	296	601	842	1,472	1,356		363		470		Total 3,327	2,073
Percent exuviant	68.9	80.2	85.5	89.5	87.2		86.5		83.8		Average 84.6	86.8
Percent anexuviant	31.1	19.8	14.5	10.5	12.8		13.5		16.2		Average 15.4	13.2
Percent recruits 1/	56.4	60.3	63.5	72.6	63.3		78.6		61.8		Average 64.1	69.5
Recruits per pot 1/	15.8	21.6	18.0	25.3	14.0		16.2		18.0		Average 15.9	24.5
% of catch < 7" width	0	26.3	0	24.5	0		0		0		Average 0	24.4
Crabs per pot > 7" width	28.0	35.8	28.3	34.9	22.1		20.6		29.1		Average 24.8	35.2

1/ Recruitment based on 7" size limit and 18 mm length increase per molt.

2/ 1971-72 season in Registration Area "O" closed October 23, 1971.

Appendix Table A-VII. Comparison of king crab catch and effort statistics from Registration Area "O", 1970-71 and 1971-72 fishing seasons.

	Sub-area VII - Bering Sea Waters											
	September		October ^{2/}		November ^{2/}		December ^{2/}		January ^{2/}		70-71	71-72
	70-71	71-72	70-71	71-72	70-71	71-72	70-71	71-72	70-71	71-72		
Total catch (pounds)	566,732	1,456,781	1,903,646	2,657,108	1,406,400		1,568,110		698,113		Total 6,143,001	4,113,889
Total catch (number)	74,586	226,306	243,969	416,648	178,563		197,111		86,607		Total 780,836	642,954
Total pot lifts	2,945	4,887	9,874	9,404	8,992		10,494		4,327		Total 36,632	14,291
Total landings	9.5	49.5	44	65.84	40.5		52		27		Total 173	115.3
Crabs per pot	25.3	46.3	24.7	44.3	19.9		18.8		20.0		Average 21.3	45.0
Pounds per pot	192.4	298.1	192.8	282.6	156.4		149.4		161.3		Average 167.7	287.9
Number measured	309	951	2,409	1,270	1,735		721		664		Total 5,838	2,221
Percent exuviant	64.4	73.8	87.4	77.5	86.0		83.6		86.4		Average 85.2	75.9
Percent anexuviant	35.6	26.2	12.6	22.5	14.0		16.4		13.6		Average 14.8	24.1
Percent recruits ^{1/}	32.3	56.4	41.6	58.6	40.0		35.5		44.9		Average 40.6	57.7
Recruits per pot ^{1/}	8.2	20.1	10.3	18.4	7.9		6.7		9.0		Average 8.6	19.0
% of catch < 7" width	0	22.9	0	29.2	0		0		0		Average 0	26.7
Crabs per pot > 7" width	25.3	35.7	24.7	31.4	19.9		18.8		20.0		Average 21.3	33.0

^{1/} Recruitment based on 7" size limit and 18 mm length increase per molt.

^{2/} 1971-72 season in Registration Area "O" closed October 23, 1971.

Appendix Table A-VIII. Comparison of king crab catch and effort statistics from Registration Area "R", 1970-71 and 1971-72^{1/} fishing seasons.

Sub-area VIII - Atka-Amlia, Pacific Ocean

	November		December		January		February		March		70-71	71-72
	70-71	71-72	70-71	71-72	70-71	71-72	70-71	71-72	70-71	71-72		
Total catch (pounds)	288,899	37,125	1,723,752	5,400	2,318,938	0	4,710,652	0	1,880,997	0	10,923,238	42,525
Total catch (numbers)	43,893	6,856	263,376	1,000	349,977	0	719,936	0	289,846	0	1,667,028	7,856
Total pot lifts	2,488	442	14,262	30	14,954	0	23,006	0	21,184	0	75,894	472
Total landings	7.5	2.5	40.0	0.5	51.0	0	58.5	0	62.0	0	219	3.0
Crabs per pot	17.6	15.5	18.5	33.3	23.4	-	31.3	-	13.7	-	22.0	16.6
Pounds per pot	116.1	84.0	120.9	180.0	155.1	-	204.8	-	88.8	-	143.9	90.1
Number measured	485	0	2,077	0	2,251	-	2,601	-	894	-	8,308	0
Percent exuviant	58.8	-	51.7	-	73.6	-	71.3	-	75.7	-	66.8	-
Percent anexuviant	41.2	-	48.3	-	26.4	-	28.7	-	24.3	-	33.2	-
Percent recruits ^{2/}	31.8	-	29.9	-	45.2	-	40.0	-	46.6	-	33.9	-
Recruits per pot ^{2/}	5.6	-	5.4	-	10.6	-	12.5	-	6.4	-	8.6	-
% of catch < 7" width	0	-	0	-	0	-	0	-	0	-	0	-
Crabs per pot > 7" width	17.6	-	18.5	-	23.4	-	31.3	-	13.7	-	22.0	-

1/ 1971-72 season in Registration Area "R" closed December 15, 1971.

2/ Recruitment based on 7" size limit and 12 mm length increase per molt.

Appendix Table A-IX. Comparison of king crab catch and effort statistics from Registration Area "R", 1970-71 and 1971-72^{1/} fishing seasons.

	Sub-area IX - Atka Island, Bering Sea											
	November		December		January		February		March		70-71	71-72
	70-71	71-72	70-71	71-72	70-71	71-72	70-71	71-72	70-71	71-72		
Total catch (pounds)	1,429,148	251,118	740,836	0	413,789	0	356,490	0	240,215	0	3,180,478	251,118
Total catch (number)	225,392	45,662	118,971	0	62,965	0	57,362	0	38,752	0	503,442	45,662
Total pot lifts	12,158	1,997	9,714	0	4,118	0	3,369	0	3,065	0	32,424	1,997
Total landings	36.0	7.5	31.5	0	17.5	0	9.0	0	18.0	0	112	7.5
Crabs per pot	18.5	22.9	12.2	-	15.3	-	17.0	-	12.6	-	Average	15.5 22.9
Pounds per pot	117.5	125.7	76.3	-	100.5	-	105.8	-	78.4	-	Average	98.1 125.7
Number measured	1,236	51	1,104	-	650	-	400	-	371	-	Total	3,761 51
Percent exuviant	69.3	82.4	71.1	-	69.7	-	66.5	-	77.4	-	Average	70.4 82.4
Percent anexuviant	30.7	17.6	28.9	-	30.3	-	33.5	-	22.6	-	Average	29.6 17.6
Percent recruits ^{2/}	51.6	63.0	54.5	-	50.0	-	54.8	-	59.0	-	Average	53.3 63.0
Recruits per pot ^{2/}	9.5	7.6	6.6	-	7.6	-	9.3	-	7.4	-	Average	8.2 7.6
% of catch < 7" width	0	47.1	0	-	0	-	0	-	0	-	Average	0 47.1
Crabs per pot > 7" width	18.5	12.1	12.2	-	15.3	-	17.0	-	12.6	-	Average	15.5 12.1

1/ 1971-72 season in Registration Area "R" closed December 15, 1971.

2/ Recruitment based on 7" size limit and 12 mm length increase per molt.

Appendix Table A-X. Comparison of king crab catch and effort statistics from Registration Area "R", 1970-71 and 1971-72^{1/} fishing seasons.

	Sub-area X - Amlia Island, Bering Sea											
	November		December		January		February		March			
	70-71	71-72	70-71	71-72	70-71	71-72	70-71	71-72	70-71	71-72	70-71	71-72
Total catch (pounds)	950,699	6,943,884	100,560	8,220,722	125,353	0	136,618	0	134,876	0	1,448,106	15,164,606
Total catch (number)	140,561	1,271,192	15,502	1,508,255	18,148	0	20,347	0	20,863	0	215,421	2,779,447
Total pot lifts	6,512	22,503	867	21,039	916	0	965	0	1,400	0	10,660	43,542
Total landings	17.5	68.5	2.5	86.5	3.5	0	1.5	0	5.0	0	30.0	155.0
Crabs per pot	21.6	56.5	17.9	71.7	19.8	-	21.1	-	14.9	-	20.2	63.8
Pounds per pot	146.0	308.6	116.0	390.7	136.8	-	141.6	-	96.3	-	135.8	348.3
Number measured	1,195	3,024	200	2,367	200	-	50	-	100	-	1,745	5,391
Percent exuviant	78.7	90.2	88.0	94.4	78.0	-	84.0	-	78.0	-	79.8	92.0
Percent anexuviant	21.3	9.8	12.0	5.6	22.0	-	16.0	-	22.0	-	20.2	8.0
Percent recruits ^{2/}	52.3	80.1	62.5	78.9	47.5	-	56.0	-	52.0	-	53.0	79.6
Recruits per pot ^{2/}	11.3	19.4	11.2	24.0	9.4	-	11.8	-	7.7	-	10.7	21.6
% of catch < 7" width	0	57.1	0	57.6	0	-	0	-	0	-	0	57.3
Crabs per pot > 7" width	21.6	24.2	17.9	30.4	19.8	-	21.1	-	14.9	-	20.2	27.2

1/ 1971-72 season in Registration Area "R" closed December 15, 1971.

2/ Recruitment based on 7" size limit and 12 mm length increase per molt.

Appendix Table A-XI. Comparison of king crab catch and effort statistics from Registration Area "R", 1970-71 and 1971-72^{1/} fishing seasons.

	Sub-area XI - Petrel Bank											
	November		December		January		February		March		70-71	71-72
	70-71	71-72	70-71	71-72	70-71	71-72	70-71	71-72	70-71	71-72	Total	Total
Total catch (pounds)	48,715	17,675	140,330	0	159,490	0	146,464	0	10,200	0	505,199	17,675
Total catch (number)	7,989	3,237	23,301	0	25,745	0	23,237	0	1,574	0	81,846	3,237
Total pot lifts	649	350	2,036	0	1,317	0	1,185	0	70	0	5,257	350
Total landings	2.0	0.5	6.0	0	4.0	0	4.0	0	1.0	0	17.0	0.5
Crabs per pot	12.3	9.2	11.4	-	19.5	-	19.6	-	22.5	-	15.6	9.2
Pounds per pot	75.1	50.5	68.9	-	121.1	-	123.6	-	145.7	-	96.1	50.5
Number measured	101	0	300	-	200	-	100	-	50	-	751	0
Percent exuviant	35.6	-	34.7	-	48	-	35.0	-	30.0	-	38.1	-
Percent anexuviant	64.4	-	65.3	-	52	-	65.0	-	70.0	-	61.9	-
Percent recruits ^{2/}	29.7	-	26.3	-	36.5	-	28.0	-	20.0	-	29.3	-
Recruits per pot ^{2/}	3.6	-	3.0	-	7.1	-	5.5	-	4.5	-	4.6	-
% of catch < 7" width	0	-	0	-	0	-	0	-	0	-	0	-
Crabs per pot > 7" width	12.3	-	11.4	-	19.5	-	19.6	-	22.5	-	15.6	-

1/ 1971-72 season in Registration Area "R" closed December 15, 1971.

2/ Recruitment based on 7" size limit and 12 mm length increase per molt.

Appendix Table B-I. Summary of commercial king crab carapace length and shell age composition by one mm size increments (percent occurrence) Registration Area "LM", Sub-area I, 1970-71, 1971-72 seasons.

Carapace length-mm	1970-71		1971-72		Carapace length-mm	1970-71		1971-72	
	New shell	Old shell	New shell	Old shell		New shell	Old shell	New shell	Old shell
129	-	-	0.06	-	173	0.51	0.37	0.29	-
132	-	-	0.34	-	174	0.79	0.14	0.46	0.23
133	-	-	0.23	-	175	0.51	0.23	0.63	0.06
134	-	-	0.75	-	176	0.42	0.08	0.11	0.06
135	-	-	1.72	-	177	0.23	0.11	0.23	0.06
136	0.03	-	1.72	0.23	178	0.34	0.34	0.34	0.06
137	-	-	2.81	0.12	179	0.48	0.14	0.06	-
138	0.03	-	2.70	0.69	180	0.23	0.14	0.12	-
139	-	0.03	3.33	0.17	181	0.37	0.08	0.06	0.06
140	0.26	-	3.44	0.57	182	0.17	0.11	0.06	0.06
141	0.20	0.06	3.79	0.29	183	0.06	0.08	0.06	-
142	0.62	0.06	2.93	0.40	184	0.08	0.06	0.06	-
143	0.96	0.06	4.42	0.40	185	0.06	0.08	0.12	-
144	1.25	0.26	3.96	0.40	186	0.17	0.03	-	0.06
145	1.53	0.62	3.73	0.29	187	-	-	0.06	-
146	1.79	0.34	3.21	0.52	188	0.03	0.06	0.06	-
147	3.66	0.82	3.16	0.23	189	0.06	0.03	-	-
148	3.00	0.42	3.96	0.23	190	0.06	0.03	-	-
149	3.06	0.68	2.81	0.23	191	-	0.06	0.06	-
150	4.62	0.71	2.70	0.40	192	0.03	0.03	0.06	0.06
151	3.60	0.71	3.16	0.69	193	-	-	-	-
152	3.63	0.79	2.58	0.63	194	0.03	0.06	-	-
153	4.00	0.85	2.64	0.29	195	-	-	-	-
154	4.48	0.68	2.64	0.69	196	-	-	-	-
155	3.54	0.74	2.30	0.29	197	-	0.06	0.06	-
156	3.77	0.60	1.72	0.40	198	-	-	-	-
157	3.26	0.85	2.01	0.23	199	-	-	-	-
158	3.09	0.65	2.30	0.29	200	-	-	-	-
159	3.35	0.74	1.66	0.46	201	-	0.03	-	-
160	2.92	0.57	1.43	0.23	202	0.03	0.03	-	-
161	2.32	0.96	1.21	0.40	203	-	-	-	-
162	2.30	0.62	1.49	0.12	204	0.03	-	-	-
163	1.84	0.45	1.84	0.29	205	0.03	-	-	-
164	2.41	0.74	1.26	0.23	206	-	-	-	-
165	1.19	0.48	0.63	0.29	207	-	0.03	-	-
166	1.47	0.37	0.57	0.46	208	-	-	-	-
167	1.70	0.60	0.46	0.46	209	-	-	-	-
168	1.25	0.62	0.86	0.29	210	-	-	-	-
169	1.19	0.45	0.46	0.29	211	-	-	-	-
170	1.13	0.25	0.40	0.06	212	-	-	-	-
171	0.77	0.74	0.23	0.23	213	-	-	-	-
172	0.71	0.42	0.23	0.17	222	-	-	-	-
					TOTALS	79.67	20.35	86.75	13.37
					Sample Size	3,527			1,743

Appendix Table B-II. Summary of commercial king crab carapace length and shell age composition by one mm size increments (percent occurrence) Registration Area "LM", Sub-area II, 1970-71, 1971-72 seasons.

Carapace length-mm	1970-71		1971-72		Carapace length-mm	1970-71		1971-72	
	New shell	Old shell	New shell	Old shell		New shell	Old shell	New shell	Old shell
129	-	-	-	-	173	1.11	-	0.49	-
132	-	-	-	-	174	2.08	0.69	0.25	0.74
133	-	-	-	-	175	1.66	0.14	1.23	0.49
134	-	-	-	-	176	1.11	0.28	1.23	-
135	-	-	0.98	-	177	1.11	0.28	0.25	0.25
136	-	-	1.23	-	178	1.80	0.42	0.98	-
137	-	-	0.98	-	179	1.38	-	0.98	-
138	-	-	1.23	0.25	180	0.69	0.28	0.98	-
139	-	-	0.98	-	181	0.14	-	1.23	-
140	-	-	1.97	0.25	182	0.55	0.28	0.98	-
141	-	-	0.98	-	183	0.42	0.55	0.25	0.25
142	0.14	0.14	2.21	-	184	0.14	-	0.49	0.49
143	-	0.14	1.72	-	185	0.28	-	0.25	-
144	-	-	1.97	0.25	186	0.28	-	0.25	0.25
145	0.55	-	1.72	-	187	0.42	-	-	-
146	1.52	-	2.46	-	188	-	-	0.25	0.25
147	1.94	0.28	0.74	-	189	0.14	-	0.25	-
148	1.25	0.14	1.72	-	190	-	-	-	-
149	2.08	0.14	2.21	-	191	-	-	-	-
150	1.52	0.14	0.98	0.25	192	-	-	0.25	0.25
151	2.08	0.28	2.46	-	193	0.14	-	0.25	0.25
152	3.05	0.28	3.69	0.49	194	-	0.14	-	0.25
153	1.52	0.69	3.44	0.74	195	-	-	0.49	-
154	2.49	0.83	3.44	0.49	196	-	-	-	0.25
155	1.11	0.55	1.72	0.74	197	-	-	-	-
156	2.77	0.42	3.19	0.49	198	-	-	-	-
157	4.02	0.69	3.69	0.25	199	-	-	-	-
158	2.49	0.42	4.42	0.49	200	-	-	-	-
159	2.91	0.28	3.69	-	201	-	-	-	-
160	3.74	0.28	2.46	0.49	202	-	-	-	-
161	4.57	0.55	2.70	0.25	203	-	-	-	-
162	4.16	0.69	2.70	0.74	204	-	-	-	-
163	1.94	1.11	1.72	0.74	205	-	-	-	-
164	4.02	0.69	2.21	0.49	206	-	-	-	-
165	3.60	0.55	1.97	0.25	207	-	-	-	-
166	4.02	0.69	1.72	0.25	208	-	-	-	-
167	2.63	0.69	1.23	0.74	209	-	-	-	-
168	1.66	0.55	1.23	0.49	210	-	-	-	-
169	1.80	1.11	0.49	0.49	211	-	-	-	-
170	2.49	0.28	0.74	0.49	212	-	-	-	-
171	1.25	0.83	0.74	0.25	213	-	-	-	-
172	2.36	0.42	0.98	-	222	-	-	-	-

TOTALS 83.13 16.92 86.04 14.08

Sample Size 722

407

Appendix Table B-III. Summary of commercial king crab carapace length and shell age composition by one mm size increments (percent occurrence) Registration Area "LM", Sub-area III, 1970-71, 1971-72 seasons.

Carapace length-mm	1970-71		1971-72		Carapace length-mm	1970-71		1971-72	
	New shell	Old shell	New shell	Old shell		New shell	Old shell	New shell	Old shell
129	-	-	-	-	173	0.33	0.07	0.23	0.23
132	-	-	0.04	-	174	0.15	0.26	0.19	0.35
133	-	-	0.19	-	175	0.33	0.07	0.42	0.27
134	-	-	0.35	-	176	0.22	-	0.23	0.35
135	-	-	0.38	0.08	177	0.15	0.07	0.23	0.35
136	-	-	0.50	0.12	178	0.07	0.04	0.12	0.19
137	-	-	0.69	-	179	0.18	0.07	0.19	0.12
138	-	-	1.07	0.19	180	0.22	0.11	0.04	0.08
139	0.04	-	1.15	0.27	181	0.04	0.04	0.12	0.12
140	0.07	0.11	1.65	0.12	182	-	0.04	0.19	0.04
141	0.15	0.15	1.84	0.23	183	-	0.07	0.15	0.12
142	0.22	0.15	1.77	0.23	184	-	0.07	0.04	-
143	0.44	0.26	1.88	0.38	185	0.07	0.07	0.15	0.04
144	0.51	0.26	1.77	0.46	186	-	0.11	0.12	0.08
145	1.18	0.74	2.26	0.42	187	0.04	0.04	0.12	0.12
146	1.00	0.51	1.92	0.42	188	-	0.04	0.04	0.04
147	3.31	2.06	2.19	0.58	189	-	0.07	0.12	0.08
148	2.46	1.76	1.96	0.35	190	-	0.04	-	-
149	2.46	1.87	2.00	0.58	191	-	-	0.08	0.08
150	2.87	2.76	2.15	0.50	192	-	0.04	0.08	0.04
151	2.61	2.21	2.96	0.58	193	-	-	0.04	0.04
152	2.57	2.65	3.15	0.92	194	-	0.04	0.04	-
153	3.38	2.68	3.49	0.58	195	-	0.04	-	-
154	3.09	2.61	3.34	0.81	196	-	-	0.04	0.08
155	3.42	2.94	2.76	0.92	197	-	-	-	-
156	2.24	1.69	3.34	0.88	198	-	0.04	-	-
157	2.68	3.12	2.73	0.73	199	-	0.04	-	-
158	3.27	2.13	3.07	0.92	200	-	0.07	-	-
159	1.65	1.65	3.07	1.00	201	-	0.07	-	0.04
160	2.57	1.91	2.84	0.81	202	-	-	-	0.04
161	1.40	1.43	3.03	0.77	203	-	0.07	-	-
162	1.25	1.29	2.19	0.69	204	-	-	-	0.04
163	1.95	1.29	2.07	0.92	205	-	0.07	-	-
164	0.99	1.25	1.96	0.92	206	-	0.04	-	-
165	0.96	0.81	1.65	0.58	207	-	0.04	-	-
166	0.44	0.67	1.65	0.54	208	-	0.07	-	-
167	0.77	0.70	0.73	0.42	209	-	-	-	-
168	0.88	0.48	0.92	0.69	210	-	-	-	-
169	0.22	0.26	1.04	0.46	211	-	-	-	-
170	0.74	0.51	0.65	0.35	212	-	-	-	-
171	0.40	0.37	0.73	0.73	213	-	0.07	-	-
172	0.51	0.26	0.42	0.50	222	-	0.04	-	-
					TOTALS	54.50	45.56	76.53	23.59
					Sample Size	2,721			2,605

Appendix Table B-IV. Summary of commercial king crab carapace length and shell age composition by one mm size increments (percent occurrence) Registration Area "LM", Sub-area IV, 1970-71, 1971-72 seasons.

Carapace length-mm	1970-71		1971-72		Carapace length-mm	1970-71		1971-72	
	New shell	Old shell	New shell	Old shell		New shell	Old shell	New shell	Old shell
129	-	-	-	-	173	-	-	0.98	-
132	-	-	-	-	174	-	-	-	-
133	-	-	0.98	-	175	-	-	-	-
134	-	-	-	-	176	-	-	-	-
135	-	-	-	-	177	-	-	0.98	1.96
136	-	-	0.98	-	178	-	-	0.98	-
137	-	-	-	-	179	-	-	-	-
138	-	-	2.94	-	180	-	-	-	-
139	-	-	0.98	-	181	-	-	-	-
140	-	-	-	-	182	-	-	-	-
141	-	-	4.90	-	183	-	-	0.98	-
142	-	-	-	-	184	-	-	-	-
143	-	-	0.98	-	185	-	-	-	-
144	-	-	1.96	-	186	-	-	-	-
145	-	-	1.96	-	187	-	-	-	-
146	-	-	0.98	-	188	-	-	-	-
147	-	-	5.88	-	189	-	-	-	-
148	-	-	1.96	-	190	-	-	-	-
149	-	-	1.96	-	191	-	-	0.98	1.96
150	-	-	1.96	1.96	192	-	-	-	-
151	-	-	0.98	0.98	193	-	-	-	-
152	-	-	0.98	-	194	-	-	-	-
153	-	-	3.92	-	195	-	-	-	-
154	-	-	3.92	-	196	-	-	-	-
155	-	-	3.92	-	197	-	-	-	-
156	-	-	5.88	0.98	198	-	-	-	-
157	-	-	2.94	1.96	199	-	-	-	-
158	-	-	1.96	1.96	200	-	-	-	-
159	-	-	3.92	1.96	201	-	-	-	-
160	-	-	0.98	0.98	202	-	-	-	-
161	-	-	3.92	0.98	203	-	-	-	-
162	-	-	0.98	-	204	-	-	-	-
163	-	-	-	-	205	-	-	-	-
164	-	-	1.96	0.98	206	-	-	-	-
165	-	-	3.92	-	207	-	-	-	-
166	-	-	-	2.94	208	-	-	-	-
167	-	-	-	0.98	209	-	-	-	-
168	-	-	-	0.98	210	-	-	-	-
169	-	-	0.98	-	211	-	-	-	-
170	-	-	-	1.96	212	-	-	-	-
171	-	-	-	-	213	-	-	-	-
172	-	-	-	1.96	222	-	-	-	-
TOTALS					-	-	74.48	25.48	
Sample Size					-	-	102		

Appendix Table B-V. Summary of commercial king crab carapace length and shell age composition by one mm size increments (percent occurrence), Registration Area "LM", Sub-area V, 1970-71, 1971-72 seasons.

Carapace length-mm	1970-71		1971-72		Carapace length-mm	1970-71		1971-72	
	New shell	Old shell	New shell	Old shell		New shell	Old shell	New shell	Old shell
129	-	-	-	-	173	2.10	0.63	1.94	1.04
132	-	-	-	-	174	1.72	0.50	1.79	0.60
133	-	-	-	-	175	1.44	0.66	1.19	0.30
134	-	-	0.15	-	176	1.31	0.25	1.26	0.30
135	-	-	0.22	-	177	1.03	0.47	1.19	0.52
136	-	-	0.07	-	178	0.84	0.16	1.26	0.37
137	-	-	0.45	-	179	0.44	0.25	1.04	0.30
138	-	-	0.37	-	180	0.88	0.12	1.19	0.52
139	-	-	0.52	-	181	0.38	0.47	0.74	-
140	-	-	0.74	-	182	0.31	0.25	0.74	0.30
141	-	0.03	0.89	0.07	183	0.28	0.31	0.22	-
142	0.03	-	0.74	0.15	184	0.22	0.38	0.60	0.07
143	0.03	0.03	0.74	-	185	0.12	0.28	0.67	0.07
144	0.09	-	0.89	0.07	186	0.16	0.06	0.15	0.07
145	0.19	0.06	0.82	0.07	187	0.06	0.25	0.30	0.07
146	0.03	0.03	1.41	0.07	188	0.16	0.09	0.22	0.07
147	0.44	0.28	1.26	0.22	189	0.06	0.25	0.22	0.07
148	0.44	0.31	0.74	0.22	190	0.12	0.41	0.22	-
149	0.78	0.22	1.26	0.37	191	-	0.12	0.07	-
150	1.31	0.63	1.49	0.15	192	0.09	0.16	-	0.07
151	1.13	0.44	1.19	0.30	193	0.09	0.22	-	-
152	1.34	1.00	1.94	0.45	194	-	0.31	-	-
153	1.50	1.00	1.86	0.45	195	0.09	0.22	0.15	-
154	1.78	0.94	2.08	0.82	196	-	0.25	-	0.07
155	1.82	1.44	1.79	0.15	197	0.03	0.06	0.07	-
156	1.75	1.19	2.31	0.45	198	0.09	0.16	-	-
157	2.63	1.47	1.79	0.89	199	0.03	0.12	-	-
158	2.53	1.56	2.16	0.82	200	0.06	0.16	-	-
159	2.38	1.19	1.94	0.82	201	-	0.09	-	-
160	2.97	1.60	2.60	0.67	202	-	0.06	-	-
161	1.88	1.38	2.08	1.04	203	0.06	0.09	0.07	-
162	3.91	1.06	2.53	0.89	204	0.03	0.09	-	0.07
163	2.97	0.91	2.83	1.19	205	0.03	0.03	-	-
164	2.75	1.28	1.56	1.86	206	-	0.03	-	-
165	3.25	0.91	2.16	0.89	207	-	0.03	-	-
166	2.28	0.72	2.53	0.52	208	-	-	-	-
167	3.25	1.00	2.38	1.12	209	-	0.03	-	-
168	2.66	0.91	2.38	1.04	210	-	0.03	-	-
169	2.25	0.44	1.64	2.08	211	-	-	-	-
170	3.10	0.72	1.79	0.74	212	-	-	-	-
171	1.94	0.66	2.23	0.97	213	-	-	-	-
172	2.00	0.81	2.38	1.19	222	-	-	-	-
					TOTALS	67.64	32.27	74.21	25.69
					Sample Size	3,196		1,344	

Appendix Table B-VI. Summary of commercial king crab carapace length and shell age composition by one mm size increments (percent occurrence), Registration Area "O", Sub-area VI, 1970-71, 1971-72 seasons.

Carapace length-mm	1970-71		1971-72		Carapace length-mm	1970-71		1971-72	
	New shell	Old shell	New shell	Old shell		New shell	Old shell	New shell	Old shell
129	-	-	-	-	173	0.78	0.21	0.34	0.24
132	-	-	-	-	174	0.99	0.09	0.39	0.14
133	-	-	-	-	175	1.05	0.21	0.48	0.19
134	-	-	0.10	-	176	0.54	0.24	0.29	0.24
135	-	-	0.29	0.10	177	0.30	0.06	0.29	0.14
136	-	-	0.77	0.05	178	0.60	0.06	0.39	0.05
137	-	-	0.72	-	179	0.36	0.12	0.34	0.05
138	-	-	1.01	0.10	180	0.39	0.03	0.14	-
139	-	-	1.64	0.10	181	0.15	-	0.14	0.05
140	0.06	-	1.54	0.05	182	0.27	0.03	0.10	0.10
141	0.12	0.03	2.36	-	183	0.21	0.09	0.14	0.05
142	0.30	-	2.17	0.10	184	0.06	-	0.05	-
143	0.45	0.03	2.70	0.14	185	0.12	-	0.10	0.05
144	0.48	0.06	2.22	0.24	186	0.12	-	-	-
145	1.77	0.21	3.33	0.34	187	0.24	-	-	0.05
146	1.14	0.15	2.99	0.24	188	0.06	0.09	-	-
147	2.04	0.33	3.33	0.19	189	-	0.03	-	-
148	3.07	0.30	3.33	0.19	190	0.03	0.06	-	-
149	2.92	0.42	2.85	0.24	191	0.03	0.03	0.05	-
150	4.15	0.30	3.71	0.63	192	0.03	-	-	-
151	2.65	0.66	3.18	0.53	193	0.03	-	-	-
152	3.40	0.54	3.42	0.43	194	-	0.03	-	-
153	4.18	0.87	3.86	0.34	195	-	-	-	-
154	2.83	0.63	3.38	0.14	196	-	-	-	-
155	4.75	0.69	3.67	0.24	197	-	-	-	-
156	3.40	0.66	3.42	0.58	198	0.06	-	-	-
157	4.09	0.69	2.80	0.63	199	0.06	-	-	-
158	3.97	0.75	3.23	0.68	200	-	-	-	-
159	3.55	0.69	2.85	0.63	201	-	0.03	-	-
160	3.49	0.99	2.70	0.14	202	-	0.03	-	-
161	2.58	0.45	2.94	0.58	203	-	-	-	-
162	3.40	0.60	2.07	0.39	204	0.03	-	-	-
163	3.07	0.63	1.78	0.63	205	-	0.03	-	-
164	2.71	0.42	1.35	0.39	206	-	-	-	-
165	2.65	0.69	1.45	0.63	207	-	-	-	-
166	1.68	0.42	1.30	0.87	208	-	-	-	-
167	1.47	0.48	1.16	0.10	209	-	-	-	-
168	2.19	0.30	1.25	0.34	210	-	-	-	-
169	1.71	0.30	0.82	0.10	211	-	-	-	-
170	1.83	0.18	0.72	0.39	212	-	-	-	-
171	1.02	0.24	0.68	0.24	213	-	-	-	-
172	0.99	0.18	0.48	0.14	222	-	-	-	-
					TOTALS	84.62	15.36	86.81	13.20
					Sample Size	3,327			2,073

Appendix Table B-VII. Summary of commercial king crab carapace length and shell age composition by one mm size increments (percent occurrence) Registration Area "O", Sub-area VII, 1970-71, 1971-72 seasons.

Carapace length-mm	1970-71		1971-72		Carapace length-mm	1970-71		1971-72	
	New shell	Old shell	New shell	Old shell		New shell	Old shell	New shell	Old shell
129	-	-	-	-	173	2.90	0.26	0.45	0.58
132	-	-	0.04	-	174	2.30	0.29	0.45	0.49
133	-	-	-	-	175	2.43	0.39	0.54	0.72
134	-	-	0.14	-	176	1.47	0.17	0.18	0.40
135	-	-	0.27	-	177	1.68	0.22	0.27	0.58
136	-	-	0.27	-	178	1.64	0.09	0.32	0.45
137	0.02	-	0.63	0.04	179	1.01	0.19	0.22	0.45
138	0.02	-	0.99	0.04	180	1.18	0.26	0.32	0.36
139	-	-	1.04	0.14	181	0.82	0.10	0.18	0.32
140	0.03	-	1.89	0.04	182	0.70	0.02	0.09	0.22
141	0.07	-	3.29	0.09	183	0.51	0.15	0.04	0.27
142	0.10	-	2.88	0.18	184	0.48	0.17	0.09	0.09
143	0.10	-	2.66	0.09	185	0.24	0.14	0.04	0.09
144	0.21	0.02	3.29	0.14	186	0.34	0.07	-	0.09
145	0.43	0.05	3.06	0.40	187	0.22	0.05	0.04	0.04
146	0.50	0.02	3.56	0.27	188	0.32	0.07	0.04	0.18
147	0.53	0.17	2.93	0.27	189	0.05	0.03	-	-
148	1.15	0.21	2.88	0.45	190	0.12	0.05	-	0.04
149	1.10	0.26	3.38	0.36	191	0.03	0.07	-	0.04
150	1.54	0.27	2.84	0.18	192	0.02	-	0.09	0.04
151	1.39	0.26	3.65	0.18	193	0.05	0.03	-	0.04
152	1.88	0.44	3.51	0.36	194	-	-	-	-
153	2.07	0.48	2.66	0.45	195	0.07	0.02	-	-
154	2.00	0.36	2.70	0.36	196	-	0.07	-	-
155	2.64	0.72	2.07	0.23	197	-	0.05	-	-
156	2.07	0.46	2.97	0.54	198	-	0.02	-	-
157	2.48	0.55	1.89	1.08	199	0.02	-	-	-
158	3.05	0.50	2.25	0.54	200	0.02	-	-	-
159	2.43	0.60	1.58	0.54	201	-	0.02	-	-
160	3.73	0.65	1.40	0.95	202	-	0.02	-	-
161	2.48	0.53	2.03	0.68	203	-	0.02	-	-
162	3.26	0.70	1.94	0.86	204	-	0.02	-	-
163	3.39	0.70	0.99	0.76	205	0.02	-	-	-
164	3.34	0.63	1.04	0.90	206	-	-	-	-
165	3.56	0.46	1.08	0.99	207	-	-	-	-
166	2.74	0.36	1.13	1.04	208	-	0.02	-	-
167	3.08	0.53	0.72	1.17	209	-	0.02	-	-
168	3.80	0.43	0.68	0.77	210	-	-	-	-
169	2.48	0.34	0.58	0.95	211	-	-	-	-
170	3.61	0.36	0.63	0.99	212	-	-	-	-
171	2.48	0.29	0.50	0.72	213	-	-	-	-
172	2.74	0.38	0.54	0.81	222	-	-	-	-
					TOTALS	85.14	14.83	75.94	24.05
					Sample Size	5,838		2,221	

Appendix Table B-VIII. Summary of commercial king crab carapace length and shell age composition by one mm size increments (percent occurrence) Registration Area "R", Sub-area VIII, 1970-71, 1971-72 seasons.

Carapace length-mm	1970-71		1971-72		Carapace length-mm	1970-71		1971-72	
	New shell	Old shell	New shell	Old shell		New shell	Old shell	New shell	Old shell
129	-	-	-	-	173	0.66	0.23	-	-
132	-	-	-	-	174	0.36	0.14	-	-
133	-	-	-	-	175	0.39	0.14	-	-
134	-	-	-	-	176	0.30	0.11	-	-
135	-	-	-	-	177	0.18	0.02	-	-
136	-	-	-	-	178	0.11	0.11	-	-
137	-	-	-	-	179	0.16	0.06	-	-
138	-	-	-	-	180	0.16	0.05	-	-
139	-	-	-	-	181	0.10	0.04	-	-
140	-	-	-	-	182	0.04	0.02	-	-
141	-	-	-	-	183	0.02	0.01	-	-
142	-	0.01	-	-	184	-	0.01	-	-
143	0.02	0.05	-	-	185	0.01	0.02	-	-
144	0.06	0.10	-	-	186	-	0.04	-	-
145	0.25	0.25	-	-	187	0.01	-	-	-
146	0.35	0.35	-	-	188	0.01	-	-	-
147	0.75	0.72	-	-	189	-	0.01	-	-
148	1.37	1.18	-	-	190	-	-	-	-
149	1.35	1.00	-	-	191	-	-	-	-
150	2.01	1.91	-	-	192	0.01	0.01	-	-
151	2.35	2.26	-	-	193	-	0.01	-	-
152	2.80	2.12	-	-	194	-	-	-	-
153	3.11	2.29	-	-	195	-	-	-	-
154	3.09	2.50	-	-	196	0.01	-	-	-
155	3.26	2.24	-	-	197	-	-	-	-
156	3.85	2.15	-	-	198	-	-	-	-
157	3.45	1.93	-	-	199	-	-	-	-
158	4.14	1.78	-	-	200	-	-	-	-
159	3.35	1.40	-	-	201	-	-	-	-
160	3.30	1.19	-	-	202	-	-	-	-
161	3.60	1.38	-	-	203	-	-	-	-
162	3.56	1.01	-	-	204	-	-	-	-
163	3.23	0.91	-	-	205	-	-	-	-
164	2.35	0.59	-	-	206	-	-	-	-
165	2.70	0.55	-	-	207	-	-	-	-
166	2.38	0.45	-	-	208	-	-	-	-
167	2.31	0.52	-	-	209	-	-	-	-
168	1.41	0.39	-	-	210	-	-	-	-
169	1.04	0.32	-	-	211	-	-	-	-
170	1.25	0.28	-	-	212	-	-	-	-
171	0.75	0.22	-	-	213	-	-	-	-
172	0.79	0.14	-	-	222	-	-	-	-
					TOTALS	66.76	33.22	-	-
					Sample Size	8,308			

Appendix Table B-IX. Summary of commercial king crab carapace length and shell age composition by one mm size increments (percent occurrence) Registration Area "R", Sub-area IX, 1970-71, 1971-72 seasons.

Carapace length-mm	New shell	Old shell	New shell	Old shell	Carapace length-mm	New shell	Old shell	New shell	Old shell
129	-	-	-	-	173	0.40	0.13	1.96	-
132	-	-	-	-	174	0.21	0.08	-	-
133	-	-	-	-	175	0.16	0.16	-	-
134	-	-	-	-	176	0.05	0.03	-	-
135	-	-	-	-	177	0.16	0.03	-	-
136	-	-	1.96	-	178	0.05	0.03	-	-
137	-	-	-	-	179	0.13	-	-	-
138	-	-	3.92	-	180	0.05	0.08	-	-
139	-	-	1.96	-	181	0.03	-	-	-
140	-	-	-	-	182	-	-	-	-
141	0.03	-	3.92	-	183	0.05	-	-	-
142	-	0.08	-	1.96	184	0.03	-	-	-
143	0.19	0.19	1.96	-	185	-	-	-	-
144	0.51	0.27	1.96	3.92	186	-	-	-	-
145	0.80	0.64	5.88	1.96	187	-	0.03	-	-
146	1.04	0.51	7.84	-	188	-	-	-	-
147	1.86	1.41	7.84	3.92	189	-	-	-	-
148	2.63	1.65	-	-	190	-	-	-	-
149	3.78	1.38	3.92	-	191	-	-	-	-
150	3.67	1.83	1.96	-	192	-	-	-	-
151	3.56	1.68	-	1.96	193	-	-	-	-
152	4.60	2.10	3.92	-	194	-	-	-	-
153	3.96	2.15	5.88	-	195	-	-	-	-
154	4.57	1.94	1.96	-	196	-	-	-	-
155	4.25	1.94	1.96	-	197	-	-	-	-
156	4.20	1.75	3.92	-	198	-	-	-	-
157	4.49	1.25	1.96	-	199	-	-	-	-
158	3.14	1.38	3.92	1.96	200	-	-	-	-
159	2.98	0.93	3.92	-	201	-	-	-	-
160	3.00	0.77	-	-	202	-	-	-	-
161	2.69	0.88	1.96	-	203	-	-	-	-
162	2.39	0.82	3.92	-	204	-	-	-	-
163	2.26	0.98	-	-	205	-	-	-	-
164	1.60	0.43	-	-	206	-	-	-	-
165	1.65	0.35	-	-	207	-	-	-	-
166	0.96	0.58	-	-	208	-	-	-	-
167	0.98	0.35	-	1.96	209	-	-	-	-
168	0.93	0.32	-	-	210	-	-	-	-
169	0.93	0.13	1.96	-	211	-	-	-	-
170	0.45	0.08	-	-	212	-	-	-	-
171	0.51	0.24	-	-	213	-	-	-	-
172	0.45	0.05	1.96	-	222	-	-	-	-

TOTALS 70.38 29.63 82.32 17.64

Sample Size 3,761 51

Appendix Table B-X. Summary of commercial king crab carapace length and shell age composition by one mm size increments, (percent occurrence) Registration Area "R", Sub-area X, 1970-71, 1971-72 seasons.

Carapace length-mm	1970-71		1971-72		Carapace length-mm	1970-71		1971-72	
	New shell	Old shell	New shell	Old shell		New shell	Old shell	New shell	Old shell
129	-	-	-	-	173	0.40	0.17	0.04	0.02
132	-	-	0.04	-	174	0.69	0.12	0.04	0.02
133	-	-	0.11	-	175	0.40	0.17	0.04	0.02
134	-	-	0.18	0.06	176	0.23	0.12	0.02	-
135	-	-	0.52	0.02	177	0.17	0.06	0.02	-
136	-	-	0.95	0.09	178	0.12	0.06	0.04	0.02
137	-	-	1.56	0.09	179	-	0.12	-	-
138	-	-	2.23	0.26	180	0.06	-	0.02	-
139	-	-	3.32	0.24	181	0.12	-	-	-
140	-	-	3.99	0.24	182	0.06	-	-	-
141	-	-	4.69	0.43	183	-	0.06	0.02	-
142	0.12	-	5.36	0.59	184	0.12	-	-	-
143	-	-	5.70	0.35	185	-	0.06	-	-
144	0.12	-	5.56	0.46	186	-	-	-	-
145	0.92	0.34	5.62	0.48	187	-	0.06	-	-
146	1.20	0.17	5.55	0.44	188	-	-	-	-
147	1.78	0.34	4.95	0.50	189	-	-	-	-
148	1.89	0.63	4.34	0.28	190	-	-	-	-
149	2.86	0.74	4.53	0.26	191	-	-	-	-
150	4.18	1.20	4.21	0.15	192	-	-	-	-
151	3.61	0.86	3.60	0.32	193	-	-	-	-
152	3.84	1.09	3.73	0.28	194	-	-	-	-
153	3.55	0.97	3.25	0.15	195	-	-	-	-
154	4.58	0.46	2.60	0.22	196	-	-	-	-
155	4.13	1.32	2.50	0.13	197	-	-	-	-
156	4.36	1.03	1.89	0.20	198	-	-	-	-
157	4.13	0.86	1.89	0.17	199	-	-	-	-
158	5.10	1.09	1.54	0.17	200	-	-	-	-
159	3.55	0.46	1.46	0.11	201	-	-	-	-
160	3.10	1.26	1.02	0.18	202	-	-	-	-
161	3.15	0.80	0.91	0.15	203	-	-	-	-
162	2.52	0.57	0.82	0.11	204	-	-	-	-
163	3.04	0.92	0.70	0.17	205	-	-	-	-
164	3.61	0.63	0.52	0.15	206	-	-	-	-
165	2.52	0.74	0.33	0.11	207	-	-	-	-
166	1.78	0.46	0.43	0.07	208	-	-	-	-
167	2.01	0.63	0.32	0.06	209	-	-	-	-
168	1.66	0.17	0.24	0.02	210	-	-	-	-
169	1.20	0.46	0.13	0.06	211	-	-	-	-
170	1.38	0.46	0.28	0.02	212	-	-	-	-
171	1.26	0.23	0.13	0.06	213	-	-	-	-
172	0.34	0.29	0.11	0.06	222	-	-	-	-
					TOTALS	79.86	20.18	92.05	7.99
					Sample Size	1,745			5,391

Appendix Table B-XI. Summary of commercial king crab carapace length and shell age composition by one mm size increments (percent occurrence), Registration Area "R", Sub-area XI, 1970-71, 1971-72 seasons.

Carapace length-mm	1970-71		1971-72		Carapace length-mm	1970-71		1971-72	
	New shell	Old shell	New shell	Old shell		New shell	Old shell	New shell	Old shell
129	-	-	-	-	173	0.13	0.13	-	-
132	-	-	-	-	174	-	0.27	-	-
133	-	-	-	-	175	-	0.40	-	-
134	-	-	-	-	176	-	-	-	-
135	-	-	-	-	177	-	0.27	-	-
136	-	-	-	-	178	-	-	-	-
137	-	-	-	-	179	-	-	-	-
138	-	-	-	-	180	-	0.13	-	-
139	-	-	-	-	181	-	-	-	-
140	-	-	-	-	182	0.13	-	-	-
141	-	-	-	-	183	0.13	0.27	-	-
142	-	-	-	-	184	-	-	-	-
143	-	0.13	-	-	185	-	-	-	-
144	-	0.13	-	-	186	-	-	-	-
145	0.27	-	-	-	187	-	-	-	-
146	0.53	0.13	-	-	188	-	-	-	-
147	0.40	0.53	-	-	189	-	-	-	-
148	1.33	0.80	-	-	190	-	-	-	-
149	1.20	0.80	-	-	191	-	-	-	-
150	1.86	2.53	-	-	192	-	-	-	-
151	2.40	2.80	-	-	193	-	0.13	-	-
152	1.86	2.80	-	-	194	-	-	-	-
153	3.06	3.46	-	-	195	-	-	-	-
154	1.73	2.93	-	-	196	-	-	-	-
155	3.33	3.99	-	-	197	-	-	-	-
156	2.66	3.46	-	-	198	-	-	-	-
157	3.46	3.60	-	-	199	-	-	-	-
158	1.86	4.79	-	-	200	-	-	-	-
159	1.86	3.73	-	-	201	-	-	-	-
160	1.46	4.26	-	-	202	-	-	-	-
161	2.00	2.40	-	-	203	-	-	-	-
162	1.20	1.86	-	-	204	-	-	-	-
163	1.86	2.13	-	-	205	-	-	-	-
164	0.27	2.26	-	-	206	-	-	-	-
165	0.40	2.80	-	-	207	-	-	-	-
166	0.80	1.60	-	-	208	-	-	-	-
167	0.40	1.33	-	-	209	-	-	-	-
168	0.13	1.46	-	-	210	-	-	-	-
169	0.40	1.46	-	-	211	-	-	-	-
170	0.13	0.67	-	-	212	-	-	-	-
171	0.40	0.67	-	-	213	-	-	-	-
172	0.40	0.80	-	-	222	-	-	-	-

TOTALS 38.05 61.91

Sample Size 751

Appendix Table C-I. Comparison of king crab catch and effort statistics from Registration Area "LM", 1970-71 and 1971-72 ^{1/} fishing seasons.

All Sub-areas combined - (I-V)														
August	September		October		November		December		January		February		70-71	71-72
	70-71	70-71	71-72	70-71	71-72	70-71	71-72	70-71	71-72	70-71	71-72			
Total catch (pounds)	340,270	867,625	1,390,731	903,858	1,211,363	534,413	701,893	421,728	550,382	233,745	268,761	124,121	3,425,760	4,123,130
Total catch (number)	46,237	118,811	212,501	118,313	177,524	67,353	98,148	52,498	74,418	28,075	34,803	14,755	446,042	597,394
Total pot lifts	2,200	8,059	14,725	9,450	11,411	8,297	7,968	6,848	5,587	3,247	2,068	894	38,995	41,759
Total landings	26	74	104.5	73.5	110	62.5	66	61	57	35	26	7	339	363.5
Crabs per pot	21.0	14.7	14.4	12.5	15.6	8.1	12.3	7.6	13.3	8.6	16.8	16.5	11.4	14.3
Pounds per pot	154.7	107.6	94.4	95.6	106.2	64.4	88.1	61.6	98.5	72.0	130.0	138.8	87.9	98.7
Number measured	0	2,237	2,353	3,797	1,249	1,985	1,895	1,285	504	711	200	151	10,166	6,201
Percent exuviant	-	69.8	82.8	71.9	73.7	62.4	78.2	64.0	80.8	80.0	85.5	87.4	69.4	79.5
Percent anexuviant	-	30.2	17.2	28.1	26.3	37.6	21.8	36.0	19.2	20.0	14.5	12.6	30.6	20.5
Percent recruits ^{2/}	-	58.9	65.8	52.4	56.3	44.0	50.8	41.6	53.1	42.0	63.6	41.1	49.4	58.8
Recruits per pot ^{2/}	-	8.6	6.6	6.6	7.6	3.6	5.1	3.2	6.8	3.6	10.6	6.8	5.6	6.7
% of catch < 7" width	0	0	29.9	0	13.1	0	19.1	0	4.0	0	1.0	0	0	20.4
Crabs per pot > 7" width	21.0	14.7	10.1	12.5	13.6	8.1	10.0	7.6	12.8	8.6	16.6	16.5	11.4	11.4

1/ No fishing in August of 1971-72 season. Sub-areas I-IV closed January 15, 1972; Sub-area V closed January 24, 1972.

2/ Recruitment based on 7" size limit and 18 mm length increase per molt.

Appendix Table C-II. Comparison of king crab catch and effort statistics from Registration Area "O", 1970-71 and 1971-72^{1/} fishing seasons.

	All Sub-areas combined - (VI-VII)											
	September		October		November		December		January		70-71	71-72
	70-71	71-72	70-71	71-72	70-71	71-72	70-71	71-72	70-71	71-72		
Total catch (pounds)	809,630	2,698,882	3,171,733	6,692,733	2,423,129		2,147,755		1,099,358		9,651,503	9,391,615
Total catch (number)	109,588	416,562	417,064	1,031,130	319,297		278,951		140,679		1,265,579	1,447,692
Total pot lifts	4,197	8,798	15,988	22,733	15,369		14,457		6,187		56,198	31,531
Total landings	14	69.5	73.5	139	69.5		72		39		268	208.5
Crabs per pot	26.1	47.3	26.1	45.4	20.8		19.3		22.7		22.5	45.9
Pounds per pot	192.9	306.8	198.4	294.4	157.7		148.6		177.7		171.7	297.8
Number measured	605	1,652	3,251	2,992	3,091		1,084		1,134		9,165	4,644
Percent exuviant	66.6	76.4	86.9	84.1	86.5		84.6		85.4		72.7	81.4
Percent anexuviant	33.4	23.6	13.1	15.9	13.5		15.4		14.6		27.3	18.6
Percent recruits ^{2/}	44.0	57.8	46.0	66.3	50.6		50.2		51.6		48.7	63.4
Recruits per pot ^{2/}	11.5	20.9	13.4	22.1	10.5		9.7		11.7		11.4	21.6
% of catch < 7" width	0	23.4	0	26.7	0		0		0		0	25.6
Crabs per pot > 7" width	26.1	36.2	26.1	33.3	20.8		19.3		22.7		22.5	34.1

1/ 1971-72 season in Registration Area "O" closed October 23, 1971.

2/ Recruitment based on 7" size limit and 18 mm length increase per molt.

Appendix Table C-III. Comparison of king crab catch and effort statistics from Registration Area "R", 1970-71 and 1971-72^{1/} fishing seasons.

	All Sub-areas combined - (VIII-XI)											
	November		December		January		February		March		70-71	71-72
	70-71	71-72	70-71	71-72	70-71	71-72	70-71	71-72	70-71	71-72		
Total catch (pounds)	2,717,461	7,249,802	2,705,478	8,226,122	3,017,570		5,350,224		2,266,288		16,057,021	15,475,924
Total catch (number)	417,835	1,326,947	421,150	1,509,255	458,835		820,880		351,035		2,467,737	2,836,202
Total pot lifts	21,807	25,292	26,879	21,069	21,305		28,525		25,719		124,235	46,361
Total landings	63.0	79.0	80.0	87.0	76.0		73.0		86.0		378	166
Crabs per pot	19.2	52.5	15.7	71.6	21.5		28.8		13.6		Average 19.9	61.2
Pounds per pot	124.6	286.6	100.6	390.4	141.6		187.6		88.1		Average 129.2	333.8
Number measured	3,017	3,075	3,681	2,367	3,301		3,151		1,415		Total 14,565	5,442
Percent exuviant	70.2	90.0	58.1	94.4	71.5		69.7		74.7		Average 67.8	91.9
Percent anexuviant	29.8	10.0	41.9	5.6	28.5		30.2		25.3		Average 32.2	8.1
Percent recruits ^{2/}	48.0	79.8	38.2	78.9	45.8		41.7		49.3		Average 43,843.8	79.4
Recruits per pot ^{2/}	9.2	18.0	6.0	24.0	9.8		12.0		6.7		Average 8.7	20.8
% of catch < 7" width	0	56.9	0	57.6	0		0		0		Average 0	57.2
Crabs per pot > 7" width	19.2	22.6	15.7	30.4	21.5		28.8		13.6		Average 19.9	26.2

1/ 1971-72 season in Registration Area "R" closed December 15, 1971.

2/ Recruitment based on 7" size limit and 12 mm length increase per molt.

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